CNL Assignment - 3

Q.1. Write note on flow control and expor control.

-> Exxox Control:

The next problem to be dealt with is to make sure that all frames are eventually delivered to network layer at destination, in proper order.

Generally receiver sends back some feedback (+ve/-ve) to convey in to about whether it received frame or not.

A positive acknowledgement(ACK) indicates successful and orror free delivery

Whereas negative acknowledment (NAK) means something gone wrong That frame is retransmitted.

4. Due to noise frame may vanish completely.

So, error control in data link layer is process of detecting and retransmitting data which how been lost or corrupted during transmission of data.

Any reliable system must have a toursmission mechanism for detecting and correcting such errors.

eg: Sliding window ARD

Flow Control:

It is an important function of Data Link Layer. It refers to set of procedures that tells the sender how much data it can transmit before waiting for acknowledgement from receiver.

eq: Stop & Wait Protocol

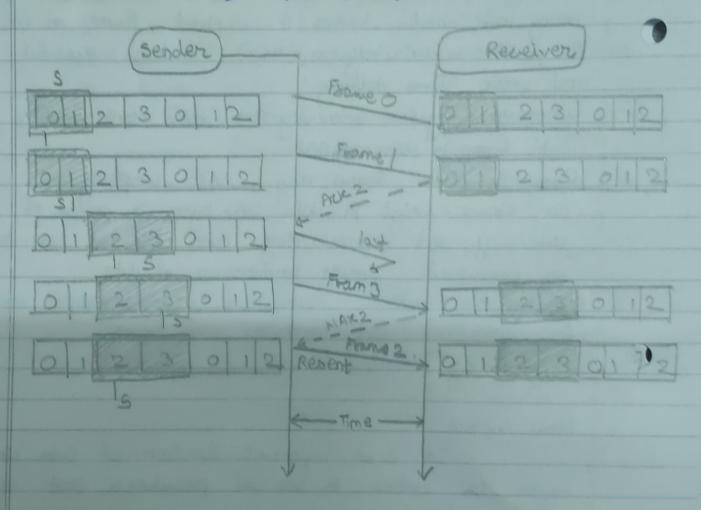
Q.2. What is Sliding window Pootocol?

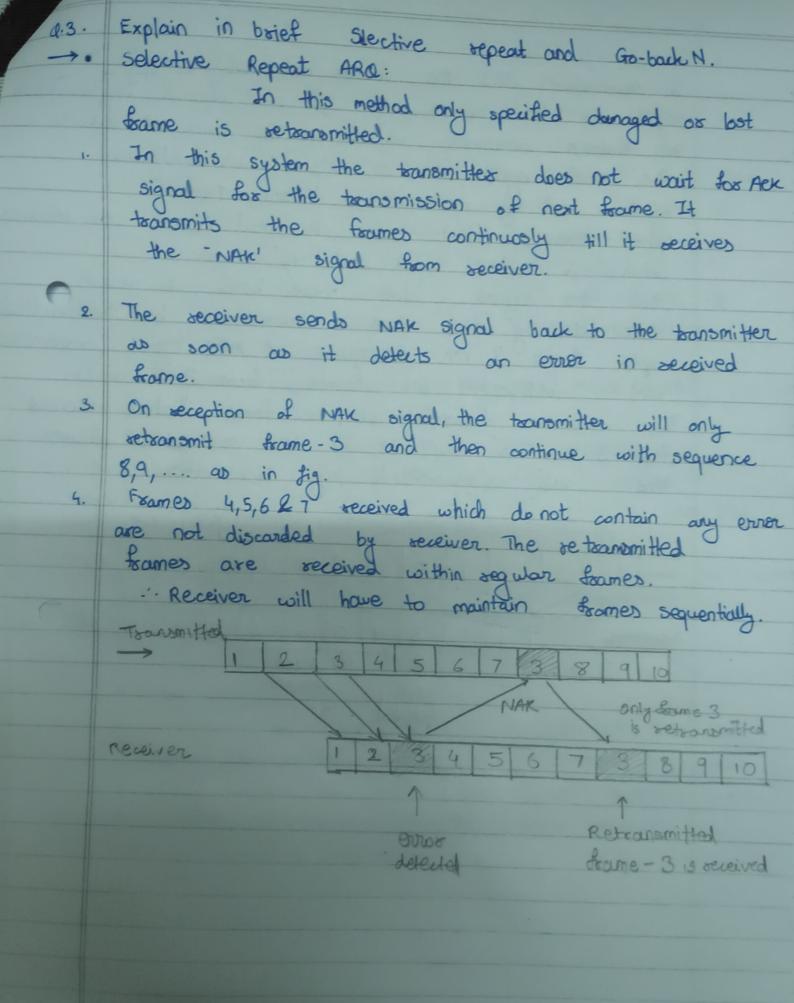
A sliding window pootocol is a feature of packet-based data transmission pootocols.

To address this, sliding window protocols allow a selected number of packets, the window, to be sent without

having to wait for an Ack.

Each packet seceives a sequence number, and the Ack's send tack that number.





· Go - back - n - ARQ: In Go-back-n ARQ the sender does not wait for ACK signal for the transmission of next frame. It transmits the frames continuosly as long as it does not receive the 'NAK' signal. NAK is negative adknowledgement signal sent by seceiver to toursmitter. when seceiver detects error in third frame, the seceiver sends a NAK signal back to sender. But this signal takes some time to reach transmitter. By that time transmitter has transmitted upto frame 7. On Reception of NAK signal, transmitter will retransmit all trames from 3 onwards. The seceiver discards all the frames it has seceived after 3 i.e 3 to 7. It will then seceive all frames that are retransmitted by transmitter. Retainmission of Receiver Dis carded frames erroz detected